

Peerless

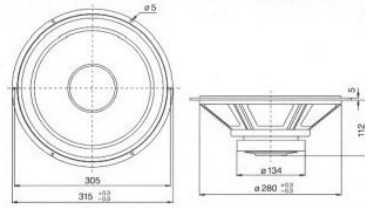


12" WOOFER



831857

315 SWR 39 134 PPX AL 4L 8Ω



New 12" woofer in the CC line. It has the same long voice coil as the 10" 831727 but to obtain optimal parameters with the extra heavy moving system a new and even heavier magnet has been used. It has also rubber surround and thick polypropylene cone. Not less than 1.3 kg magnet and of course short circuiting ring and all the well-known features of the CC line.

12" WOOFER



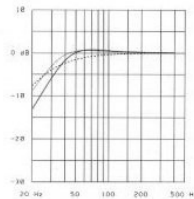
831857

315 SWR 39 134 PPX AL 4L 8Ω

nov. 1991

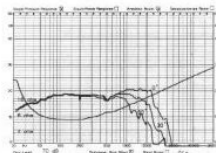
Thiele Small parameters:		Free air	Common	Baffled	Magnet and voice coil parameters:	
Nominal impedance	Znom (Ω):		8.0		Voice coil diameter	d (mm): 39
Minimum impedance/at freq.	Zmin (Ω/Hz):		6.3/124		Voice coil length	h (mm): 26.0
Maximum impedance	Zo (Ω):		46.9		Voice coil layers	n : 4
Dc resistance	Re (Ω):		5.5		Flux density in gap	B (T): 0.99
Voice coil inductance	Lc (mH):		2.8		Total useful flux	Φ (mWb): 1.52
Capacitor in series with 8Ω (For impedance compensation)	Cc (μF):		24		Height of the gap	hg (mm): 8
Resonance frequency	fs (Hz):	24.0		22.9	Diameter of magnet	dm (mm): 134
Mechanical Q factor	Qms :	3.72		3.90	Height of magnet	hm (mm): 22
Electrical Q factor	Qes :	0.49		0.52	Weight of magnet	(kg): 1.28
Total Q factor	Qts :	0.44		0.46		
F (Ratio fs/Qts)	F (Hz):			50		
Mechanical resistance	Rms (kg/s):		3.25			
Moving mass	Mms (g):	80.2		88.2		
Suspension compliance	Cms (mm/N):		0.55			
Effective cone diameter	D (cm):		25.7			
Effective piston area	Sd (cm²):		5200			
Equivalent volume	Vas (l):		2100			
Force factor	BL (N/A):		11.6			
Reference Voltage Sensitivity Re 2.83V 1m at 124 Hz (Calculated)	(dB):		89.3			
					Power handling:	
					Longterm Max System Power (IEC)	(W): 220
					Max linear SPL (rms)/by power	(dB/W): 110/170
					Frequency range for test signal:	20-20000 Hz
					<small>Normal programme material signal with a crest factor of 6dB (IEC 268-5) is used in both tests.</small>	

Boxsimulation.

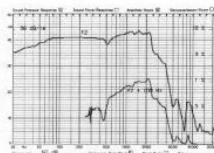


V(B)	f(1)	f(2)	f(3)	Qts	Lp	Fb	Dp
L	Hz	Hz	Hz		cm	Hz	cm
6.0	35	26	44	.51			
12.0	30	21			12.0	18	5.0
40.0	34	21	26	.55			

Frequency response and impedance curve.



Differencetone distortion.



Harmonic distortion.

